

VARIED DIAMETER VASCULAR GRAFT

ABSTRACT OF THE DISCLOSURE:

[0054] An implantable, varied-diameter graft is seamlessly flat-woven to provide a seamless, varied-diameter graft. The graft includes a flat-woven tubular portion having opposed first and second tubular ends with a contiguous bulbous woven section therebetween. The bulbous woven section has opposed first and second open ends with the first bulbous end being contiguous with the first tubular end. The second bulbous end is contiguous with the second tubular end. The first tubular end has a first number of warp yarns interlaced with a plurality of fill yarns in a woven pattern to define a first flat-woven tubular diameter. The second end has a second number of warp yarns interlaced with a plurality of fill yarns in a woven pattern to define a second flat-woven tubular diameter. The bulbous section has a third number of warp yarns interlaced with a plurality of fill yarns in a woven pattern to define a third flat-woven tubular diameter. The third number of warp yarns is greater than either of the first or said second number of warp yarns. Further, the third number of warps yarns are engagingly interlaced at the first bulbous end and disengagingly interlaced at second bulbous end to provide a seamless implantable graft having a third diameter being greater than either of said first or said second diameters.